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(12) **United States Patent**
Rao

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(54) **MEDIA MANAGEMENT SYSTEM SUPPORTING A PLURALITY OF MOBILE DEVICES**

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Related U.S. Application Data

(57) **ABSTRACT**

(63) Continuation of application No. 14/848,134, filed on Sep. 8, 2015, now abandoned, which is a continuation (Continued)

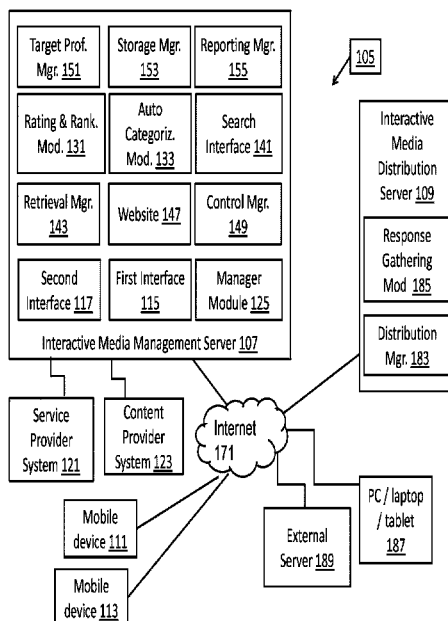
An interactive media management server that facilitates management of interactive media and delivery of such interactive media. It comprises a first interface to an interactive media distribution server communicatively coupled to a plurality of mobile devices, and a second interface to a service provider system or a content provider system. It comprises a manager module for managing creation, distribution and tracking of a plurality of interactive media. The manager module, via the second interface, manages the delivery of the plurality of interactive media from the service provider system or the content provider system, and the communication of user responses to the plurality of interactive media to the corresponding service provider system or content provider system.

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G06F 16/248 (2019.01)
G06Q 30/02 (2012.01)
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(52) **U.S. Cl.**
CPC **G06F 3/0482** (2013.01); **G06F 3/04842** (2013.01); **G06F 16/2358** (2019.01);
(Continued)

(58) **Field of Classification Search**
CPC G06F 3/0482; G06F 16/248; G06F 16/9511;
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(Continued)

20 Claims, 3 Drawing Sheets



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of application No. 13/908,447, filed on Jun. 3, 2013, now Pat. No. 9,158,437, which is a continuation of application No. 13/354,811, filed on Jan. 20, 2012, now Pat. No. 8,478,250, which is a continuation-in-part of application No. 11/888,100, filed on Jul. 30, 2007, now Pat. No. 8,131,270.

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(51) **Int. Cl.**

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- G06F 16/951** (2019.01)
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(58) **Field of Classification Search**

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See application file for complete search history.

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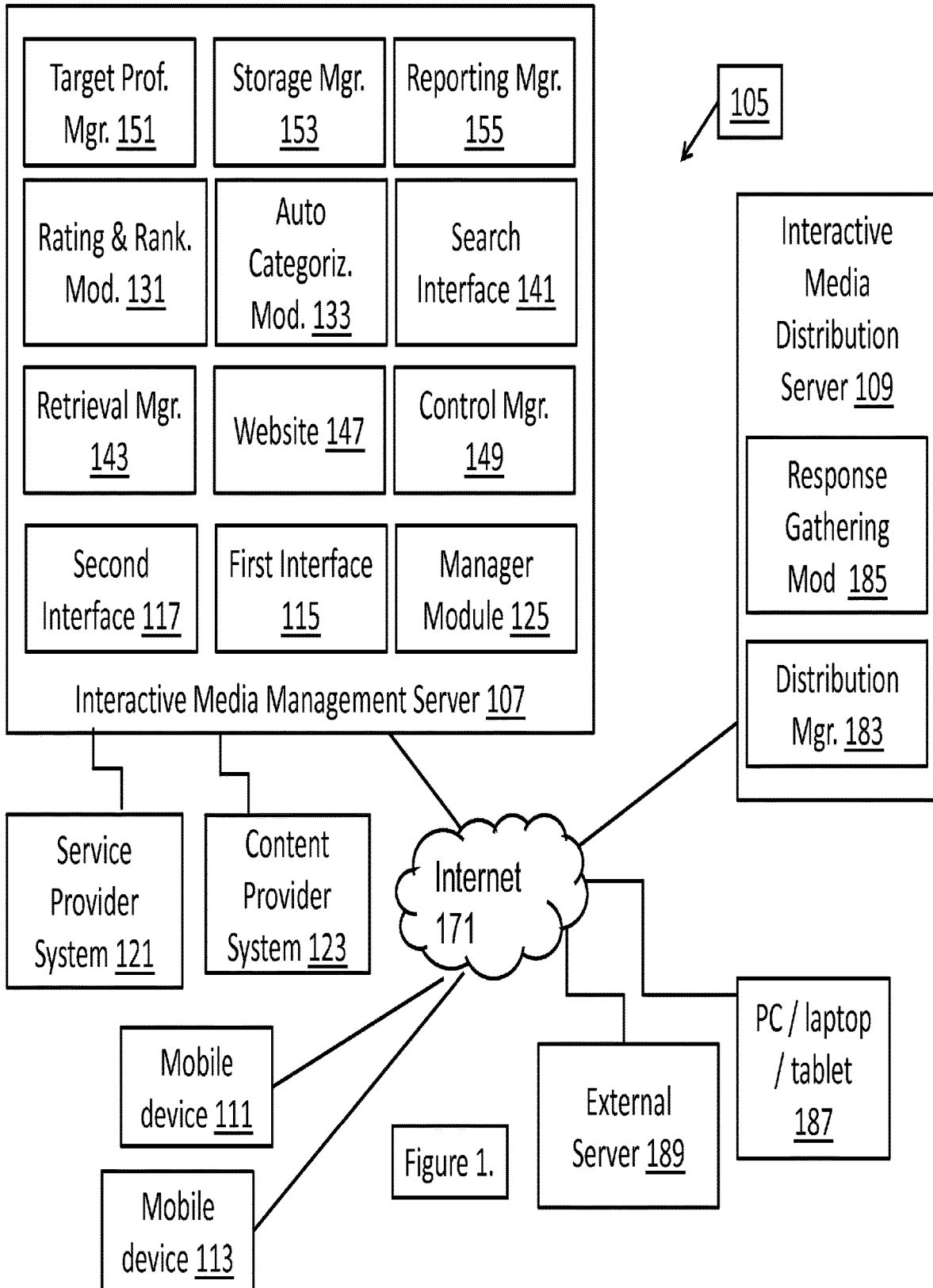
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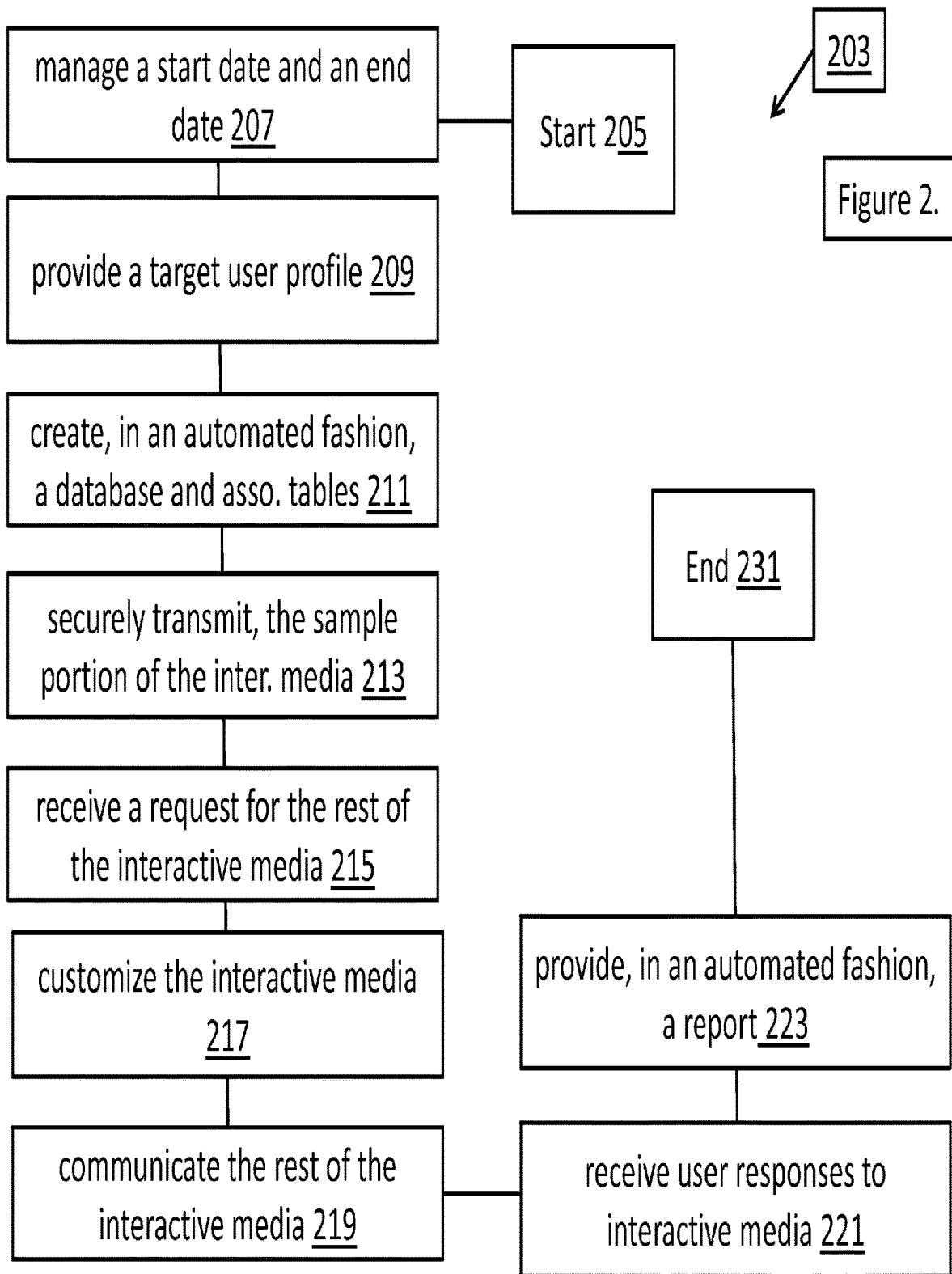
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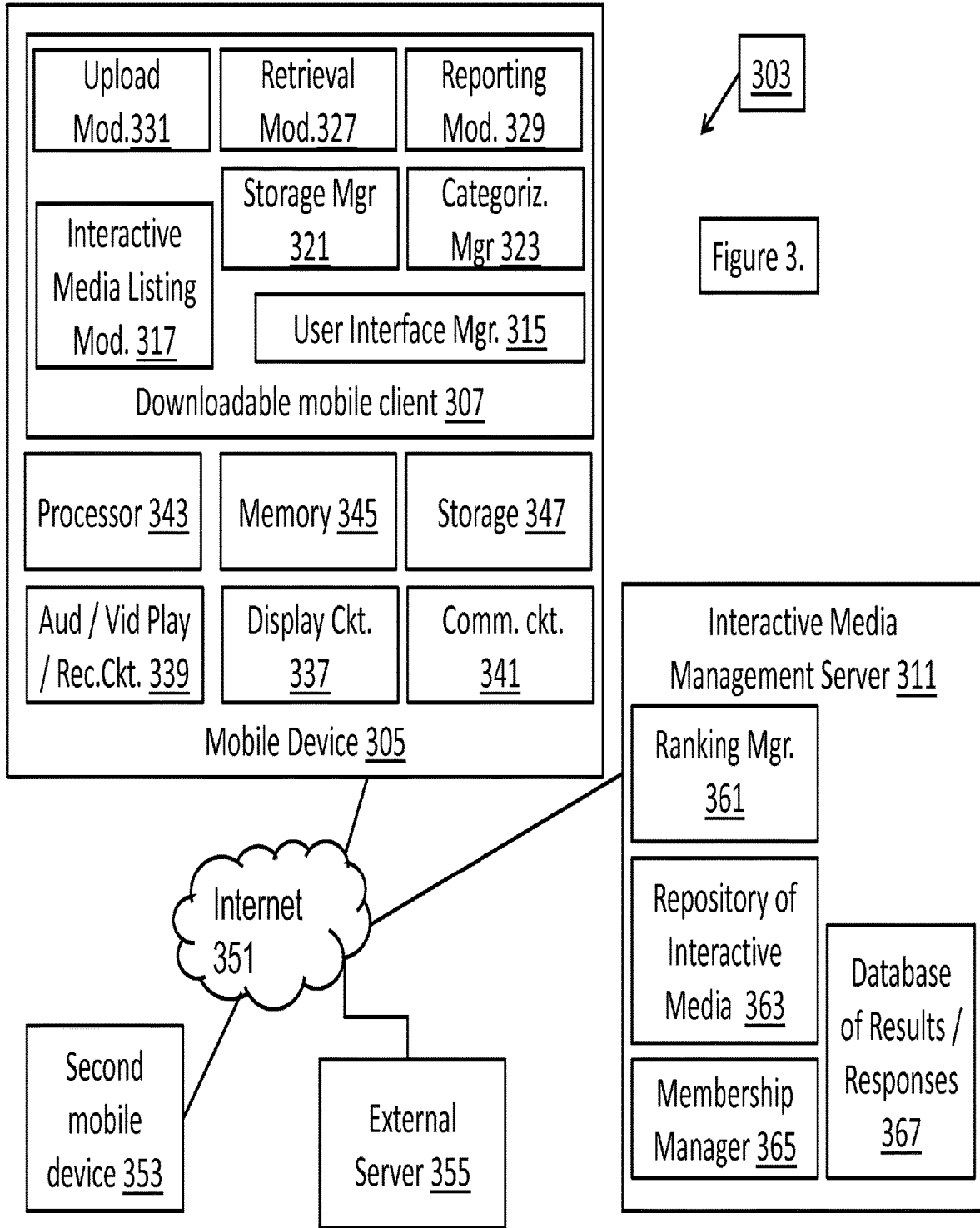
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MEDIA MANAGEMENT SYSTEM SUPPORTING A PLURALITY OF MOBILE DEVICES

CROSS REFERENCES TO RELATED APPLICATIONS

This application is a continuation of U.S. application Ser. No. 14/848,134, filed Sep. 8, 2015, which is a continuation of U.S. application Ser. No. 13/908,447, filed Jun. 3, 2013, now issued as U.S. Pat. No. 9,158,437, which is a continuation of U.S. application Ser. No. 13/354,811, filed Jan. 20, 2012, now issued as U.S. Pat. No. 8,478,250, which is a continuation-in-part of U.S. application Ser. No. 11/888,100, filed Jul. 30, 2007, now issued as U.S. Pat. No. 8,131,270, which claims the benefit of and priority to U.S. Provisional Application No. 60/860,700, filed Nov. 22, 2006. Each of the aforementioned applications and patents are hereby incorporated by reference herein in their entirety.

This patent application makes reference to U.S. patent application Ser. No. 11/977,764 entitled "MEDIA DISTRIBUTION SERVER THAT PRESENTS INTERACTIVE MEDIA TO A MOBILE DEVICE," filed on Oct. 25, 2007. The complete subject matter of the above-referenced United States patent application is hereby incorporated herein by reference, in its entirety.

BACKGROUND

1. Technical Field

The present invention relates generally to management of media; and, more particularly, to management of interactive media that is distributed to mobile devices.

2. Related Art

Cell (mobile) phones are widely used as mobile devices to communicate anywhere in the world. Some of them are very simple devices capable of voice communication alone. Many other today's mobile devices are used for multiple purposes, other than voice communication, in any convenient location. They keep record of appointments and schedules, store addresses, present calendars, surf Internet, play games among many other purposes. They are capable of playing music and other audio clips, and also play video clips and movies. They can be networked with external devices such as other mobile phones, laptops and personal computers and modems via infrared, Bluetooth and wifi interfaces. This enormously increases their functionality when compared to just few years ago.

Very few mobile devices are capable of displaying interactive media. Very few servers are equipped with the technologies and tools needed to distribute interactive media and adequately support user interactions—they are more likely to just support download by user of streaming content, such as a video from YouTube or a song from iTunes server. Users are therefore forced to passively watch video clips delivered from YouTube service or passively listen to songs downloaded from servers such as iTunes servers and others of that kind.

Today's mobile devices have extensive processing ability and capable of accomplishing many tasks that were usually meant for personal computer alone. However, battery life is always a concern, with batteries needing to be charged every couple of days. Some modern mobile devices have wide screens with alpha numeric keyboards and many soft (pro-

grammable) keys. These devices are programmable and have ability to download programs such as XML (eXtensible Markup Language) files and run them on mobile devices. These programs accomplish many tasks such as managing daily tasks, assisting marketing, keeping data and files stored, managing databases etc. However, today the range of these programs are very limited and they accomplish far less tasks than there is demand among people.

The iTunes service from Apple Corp. provides a server based music distribution service. However, it does not distribute interactive media, or other content created by/for enterprises, content providers, etc. The YouTube service provided by Google Inc. makes it possible for users to upload videos taped by them, and other users to download it or view it on the web. However, it does not provide interactive media, and it does not provide surveys based on interactive media, and in addition, it does not provide means to manage interactive media.

Microsoft Content Management Server facilitates storing and distributing content, but it does not seem to support management of interactive media, the management of the distribution of interactive media, gathering user responses for those interactive media, sending the user responses to content and service providers, providing report generation facilities for user responses collected, etc.

Thus there is a need in the market for a management server for managing interactive media, the distribution of interactive media. There is a need for a management server one that not only supports distributing interactive media by one or more servers, but also facilitates gathering user responses for those interactive media, sending the user responses to content and service providers, providing report generation facilities for user responses collected, etc. There is need for a management server for interactive media that helps manage the life-cycle of interactive media, and subscription to services that provide interactive media, and billing associated with distributing interactive media—all the features provided by the present invention.

These and other limitations and deficiencies associated with the related art may be more fully appreciated by those skilled in the art after comparing such related art with various aspects of the present invention as set forth herein with reference to the figures.

BRIEF SUMMARY OF THE INVENTION

The present invention is directed to apparatus and methods of operation that are further described in the following Brief Description of the Drawings, the Detailed Description of the Invention, and the claims. Other features and advantages of the present invention will become apparent from the following detailed description of the invention made with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic block diagram illustrating an interactive media management server that not only supports distribution of interactive media by one or more servers, but also facilitates gathering user responses for those interactive media, sending the user responses to content and service providers, providing report generation facilities for user responses collected, etc.

FIG. 2 is a flow chart that describes an exemplary operation of an interactive media management server, as it manages the acquisition, generation and collecting of inter-

active media, the distribution of interactive media, managing the life-cycle of interactive media, etc.

FIG. 3 is a perspective block diagram of a mobile device that comprises a mobile client that is capable of displaying, and letting a user interact with, an interactive media.

DETAILED DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic block diagram illustrating an interactive media management server 107 that not only supports distribution of interactive media by one or more servers, but also facilitates gathering user responses for those interactive media, sending the user responses to content and service providers, providing report generation facilities for user responses collected, etc. The interactive media management server 107 for interactive media that helps manage the life-cycle of interactive media, and subscription to services that provide interactive media, and billing associated with distributing interactive media

The interactive media management server 107 comprises a first interface 115 to an interactive media distribution server 109 communicatively coupled to a plurality of mobile devices 111, 113, and a second interface 117 to a service provider system 121 or a content provider system 123. It comprises a manager module 125 for managing creation, distribution and tracking of a plurality of interactive media. The manager module 125, via the second interface 117, manages the delivery of the plurality of interactive media from the service provider system 121 or the content provider system 123, and the communication of user responses to the plurality of interactive media to the corresponding service provider system 121 or content provider system 123.

The manager module 125 selectively facilitates storage, status change to active or inactive, updates, removal, replacement, ranking, rating, comments, feedback and tracking of usage for each of the plurality of interactive media via the first interface 115. It also manages the distribution of interactive media and the life-cycle of the interactive media. A rating and ranking module 131 in the interactive media management server 107 is configured at least to generate ratings and rankings for the plurality of interactive media based at least on the user inputs, and an automatic categorization module 133 categorizes interactive media as it is received from the service provider system 121, content provider system 123 or from one or more of the plurality of mobile devices 111, 113 communicatively coupled to the interactive media distribution server 109.

The interactive media management server 107 also comprises a search interface 141 that is used for retrieval of at least one of the plurality of interactive media and a retrieval manager 143 that coordinates providing a sample portion of at least one of the plurality of interactive media before selectively providing the entire version of the at least one of the plurality of interactive media, as necessary.

The manager module 125 manages the delivery of samples of, or references to, the plurality of interactive media, to the plurality of mobile devices 111, 113 based at least on recent retrievals by users of the plurality of mobile devices 111, 113. The manager module 125 automatically generates a report, and presents it to one or more recipients as required, wherein the report comprises recent user inputs received from users of the plurality of mobile devices 111, 113. Recent user inputs received are those received during a period of a day, a week, a month or a set duration specified.

The manager module 125 identifies an appropriate advertisement for each of the plurality of mobile devices 111, 113 based at least on previous advertisements presented and

previous retrievals of interactive media from the corresponding one of the plurality of mobile devices 111, 113.

The interactive media management server 107 regularly communicates retrieval and user input data to the service provider system 121 or content provider system 123, wherein such communication is in live mode if necessary and in batched mode by default.

The interactive media management server 107 also comprises a website 147 for creation of interactive media by a plurality of interactive media providers, a control manager 149, a target profile manager 151, a storage manager 153 and a reporting manager 155. The website 147 also provides a report generation facility for retrieval of user inputs provided by users to specific ones of the plurality of interactive media in an XML format, CSV format, PDF format, HTML or text format.

The control manager 149 assigns and manages a start date and an end date to each of the plurality of interactive media, as necessary. The target profile manager 151 determines a target user profile for at least one of the plurality of interactive media and facilitates distribution of the at least one of the plurality of interactive media based on the target user profile. The storage manager 153 creates, in an automated fashion, a database and associated tables for collecting responses to individual interactive media, as necessary. It also provides references to uploaded audio, photo and video data provided by users as part of their user inputs to specific ones of the plurality of interactive media, wherein such references are used for communicating collected responses to individual interactive media to external servers. The reporting manager 155 presents or forwards, in an automated fashion, a report created daily, weekly, and monthly, comprising usage, ranking, rating, comments, feedback and other related information, for each of the plurality of interactive media.

In one embodiment, the interactive media management server 107 also comprises a sample generator module that generates a sample version of one of the plurality of interactive media. In general, a sample is a subset of a complete original version of the interactive media. For example, a sample of an interactive movie/video that is 1 hour long can be an interactive trailer that is 2 minutes long. In addition, the manager module 125, by default, facilitates the delivery of the sample version of the one of the plurality of interactive media. It also, when requested, provides the original version of the one of the plurality of interactive media. In a related embodiment, the interactive media management server 107 has a media distribution server 109 that is integrated into the interactive media management server 107, and the interactive media management server 107 is also capable of distributing the plurality of interactive media to the plurality of mobile devices 111, 113 and receives user inputs from the plurality of mobile devices 111, 113 and processes them.

In a different embodiment, the interactive media management server 107 also comprises an edge caching interface 161 that makes it possible to configure an external edge caching cache 163 for subsets of components of each of the plurality of interactive media based on their usage and a locale associated with each of the plurality of mobile devices 111, 113. The edge caching interface 161 selectively makes a copy of a specific interactive media at a preset interval and communicates this copy to the external edge caching cache 163 that is located in a close geographical proximity to a significant number of the plurality of mobile devices 111, 113.

In one embodiment, the interactive media management server **107** also comprises the interactive media distribution server **109**, and provides all the features of the interactive media distribution server **109**. Thus is combines management of interactive media with distribution of interactive media and collecting user responses for the interactive media (and management of such user responses).

FIG. **2** is a flow chart that describes an exemplary operation of an interactive media management server **107**, as it manages the acquisition, generation and collecting of interactive media, the distribution of interactive media, the life-cycle of interactive media, etc. At a start block **205**, the operation starts when the interactive media management server **107** receives an interactive media from a content provider system or a service provider system. It optionally arranges, by using a configuring module, the received interactive media into an initial sample portion and a rest of the interactive media portion. It assigns it a status of "active" by default, although other life-cycle status such as "inactive", "deleted", "suspended", etc. may be assigned as necessary.

The interactive media management server **107**, at a next block **207**, manages a start date and an end date for each of a plurality of interactive media that requires such settings. Then, at a next block **209**, it provides a target user profile for each of a plurality of interactive media. Such target user profile may be submitted along with an associated interactive media by an advertisement company that provides ads, a content provider providing content, a service provider offering an interactive media as part of a service delivery, etc.

In one embodiment, while managing newly received interactive media, at a next block **211**, the interactive media management server **107** creates, in an automated fashion, a database (if necessary) and associated tables (as needed) for collecting responses to each of a plurality of interactive media, as necessary. For example, it might create one new table for each new interactive media received. Or it might use the same table for responses received for all interactive media that originate from one source, such as a specific content provider, or a specific company.

At a next block **213**, the an interactive media management server **107** securely transmits, employing a transmitting module, the sample portion of the interactive media initially to the electronic device such as a mobile device **111**, tablet, or a PC/laptop. Then, at a next block **215**, it receives a request for the rest of the interactive media from the electronic device subsequently. Then, at a next block **217**, it customizes the rest of the interactive media based at least on the locale associated with the electronic device. At a next block **219**, it also communicates the rest of the interactive media to the electronic device. In one embodiment, customizing is also based on an interest shown by a user of the electronic device in various categories of interactive media or based on the participation of the user in one or more social networks.

Then, at a next block **221**, the interactive media management server **107** receives user responses to interactive media reviewed by/used by users (from mobile devices, tablets, PCs/laptops, etc.). It also provides references to uploaded audio, photo and video data provided by users as part of their user inputs to specific ones of the plurality of interactive media, wherein such references are used for communication of collected responses to individual ones of the plurality of interactive media to external servers (such as a content provider system or service provider system, etc.).

Then, at a next block **223**, the interactive media management server **107** provides, in an automated fashion, a report

created daily, weekly, and monthly, to one or more registered recipients. Alternatively, registered users can create such reports using the website associated. Such reports typically comprise usage, ranking, rating and other related information, for each of the plurality of interactive media (that the user is interested in). In addition, customized reports are supported for each service provider/content provider/company/client who may have subscribed to a reporting service.

Finally, at an end block **231**, it terminates processing of the operation.

In one embodiment, the interactive media management server **107** supports verifying, from subscription records, whether the user has a subscription to a service that provides access to a requested one of a plurality of interactive media, in the block **213**. It provides the requested one of the plurality of interactive media after verifying that the user has an active subscription to access the requested one of the plurality of interactive media.

In one embodiment, in the block **221**, the interactive media management server **107** receives, from the user, in response to the interactive media, a user input wherein the user input comprises at least one or more photos, one or more recorded audio, or one or more video clips. It then makes the received one or more photos, one or more recorded audio, or one or more video clips available for review and processing by at least one authorized manager via a website page associated with the interactive media management server **107**. It also provides access selectively to the at least one or more photos, one or more recorded audio, or one or more video clips from an external server for processing and storage. Thus, portions of user responses can be selectively retrieved and stored in external storages, and included in reports generated and shared with service providers, content providers, creators and owners of interactive media, etc.

FIG. **3** is a perspective block diagram of a mobile device **305** that comprises a mobile client **307** that is capable of displaying, and letting a user interact with, an interactive media. The mobile client **307** in the mobile device **305** interacts with the interactive media management server **311** and presents interactive media under the management of the interactive media management server **311**. The mobile client **307** comprises a user interface manager **315** that is configured to receive user inputs provided by a user as the mobile client **307** displays an interactive media, wherein the user inputs is subsequently associated with the interactive media currently being displayed. It also comprises an interactive media listing module **317** that also displays ratings and rankings to aid selection of the interactive media.

The mobile device **305** comprises a display circuitry **337**, an audio/video playback & recording circuitry **339**, a processor **343**, a memory **345**, a storage **347**, at least one wireless communication means **341**, etc. in addition to the mobile client **307**.

The mobile client **307** also comprises a storage manager **321** capable of receiving, storing and playing the interactive media as it is received, and a categorization module **323** that identifies a category for the interactive media and a category of the user inputs provided by a user. It also comprises a retrieval module **327** that retrieves the interactive media and also comprises a search interface for the searching and the retrieval of the interactive media, and a reporting module **329** that communicates to the interactive media management server the user inputs provided by the user along with an identified category of the user inputs and metadata associated with the user inputs.

The mobile client **307** receives and selectively displays a sample portion of at least one of the plurality of interactive media, and, if requested by the user, subsequently retrieves the rest of the at least one of the plurality of interactive media. The user inputs provided by a user after reviewing a typical interactive media (customized optionally to a user by a server **311**) comprises user selections from drop-down lists provided, radio button selections, recorded audio provided by user employing a microphone available in the mobile device, a photo taken by the user using a camera available in the mobile device, a video clip taken by the user, and optional text data inputs provided by the user in response to text input solicitations.

The mobile client **307** also comprises an upload module **331** that uploads the recorded audio, a photo, and a video clip taken by the user to the interactive media management server **311**. The upload module **331** retrieves references to such uploaded data. The mobile client **307** incorporates the references to uploaded data into a response message that also comprises user selections for drop-down lists, text inputs, user selections to the radio button selections. The mobile client **307** sends the response packet to the interactive media management server **311** for processing.

The terms “circuit” and “circuitry” as used herein may refer to an independent circuit or to a portion of a multi-functional circuit that performs multiple underlying functions. For example, depending on the embodiment, processing circuitry may be implemented as a single chip processor or as a plurality of processing chips. Circuits and circuitry may comprise general or specific purpose hardware, or may comprise such hardware and associated software such as firmware or object code.

As one of ordinary skill in the art will appreciate, the terms “operably coupled” and “communicatively coupled,” as may be used herein, include direct coupling and indirect coupling via another component, element, circuit, or module where, for indirect coupling, the intervening component, element, circuit, or module does not modify the information of a signal but may adjust its current level, voltage level, and/or power level. As one of ordinary skill in the art will also appreciate, inferred coupling (i.e., where one element is coupled to another element by inference) includes direct and indirect coupling between two elements in the same manner as “operably coupled” and “communicatively coupled.”

The present invention has also been described above with the aid of method steps illustrating the performance of specified functions and relationships thereof. The boundaries and sequence of these functional building blocks and method steps have been arbitrarily defined herein for convenience of description. Alternate boundaries and sequences can be defined so long as the specified functions and relationships are appropriately performed. Any such alternate boundaries or sequences are thus within the scope and spirit of the claimed invention.

The present invention has been described above with the aid of functional building blocks illustrating the performance of certain significant functions. The boundaries of these functional building blocks have been arbitrarily defined for convenience of description. Alternate boundaries could be defined as long as the certain significant functions are appropriately performed. Similarly, flow diagram blocks may also have been arbitrarily defined herein to illustrate certain significant functionality. To the extent used, the flow diagram block boundaries and sequence could have been defined otherwise and still perform the certain significant functionality. Such alternate definitions of both functional

building blocks and flow diagram blocks and sequences are thus within the scope and spirit of the claimed invention.

One of average skill in the art will also recognize that the functional building blocks, and other illustrative blocks, modules and components herein, can be implemented as illustrated or by discrete components, application specific integrated circuits, processors executing appropriate software and the like or any combination thereof.

Moreover, although described in detail for purposes of clarity and understanding by way of the aforementioned embodiments, the present invention is not limited to such embodiments. It will be obvious to one of average skill in the art that various changes and modifications may be practiced within the spirit and scope of the invention, as limited only by the scope of the appended claims.

The invention claimed is:

1. A method comprising:

sending, to a client device associated with a user, an electronic survey comprising a first survey question and a second survey question;

receiving, from the client device, a first response from the user to the first survey question and a second response from the user to the second survey question;

identifying a first response type of survey response types for the first response according to a first set of metadata of the first response by categorizing the first response as one of a free-form survey response type, a drop-down selection survey response type, a multiple-choice survey response type, a file-upload survey response type, or a radio-button survey response type;

identifying a second response type of survey response types for the second response according to a second set of metadata of the second response by categorizing the second response as one of the free-form survey response type, the drop-down selection survey response type, the multiple-choice survey response type, the file-upload survey response type, or the radio-button survey response type, wherein the second response type differs from the first response type;

generating, by at least one processor, a report comprising the first response categorized according to the first response type of survey response types and the second response categorized according to the second response type of survey response types;

identifying that a first report recipient and a second report recipient subscribe to a reporting service;

providing the report to a first client device associated with the first report recipient based on the first report recipient subscribing to the reporting service; and

providing the report to a second client device associated with the second report recipient based on the second report recipient subscribing to the reporting service.

2. The method of claim 1, wherein the first set of metadata of the first response indicates that the first response comprises a file type including at least one of a digital photo, digital audio, or digital video.

3. The method of claim 1, wherein generating the report comprises:

selectively identifying a portion of the first response; and providing, within the report, the portion of the first response.

4. The method of claim 1, wherein the first response is received during a set duration specified within the reporting service.

5. The method of claim 4, further comprising identifying that the first set of metadata of the first response indicates that the first response comprises media content provided by the user.

6. The method of claim 5, wherein generating the report comprises attaching the media content provided by the user to the report.

7. The method of claim 5, further comprising storing the media content provided by the user on an external data storage server.

8. The method of claim 7, wherein generating the report comprises creating a reference to the external data storage server that allows the first report recipient and the second report recipient to access the external data storage server to retrieve the media content provided by the user.

9. The method of claim 1, further comprising:

receiving a first subscription request from the first report recipient indicating customization information for reports to be provided to the first report recipient; and receiving a second subscription request from the second report recipient indicating customization information for reports to be provided to the second report recipient.

10. A system, comprising:

at least one processor; and

at least one non-transitory computer readable storage medium storing instructions thereon that, when executed by the at least one processor, cause the system to:

send, to a client device associated with a user, an electronic survey comprising a first survey question and a second survey question;

receive, from the client device, a first response from the user to the first survey question and a second response from the user to the second survey question;

identify a first response type of survey response types for the first response according to a first set of metadata of the first response by categorizing the first response as one of a free-form survey response type, a drop-down selection survey response type, a multiple-choice survey response type, a file-upload survey response type, or a radio-button survey response type;

identify a second response type of survey response types for the second response according to a second set of metadata of the second response by categorizing the second response as one of the free-form survey response type, the drop-down selection survey response type, the multiple-choice survey response type, the file-upload survey response type, or the radio-button survey response type, wherein the second response type differs from the first response type;

generate a report comprising the first response categorized according to the first response type of survey response types and the second response categorized according to the second response type of survey response types;

identify that a first report recipient and a second report recipient subscribe to a reporting service;

provide the report to a first client device associated with the first report recipient based on the first report recipient subscribing to the reporting service; and

provide the report to a second client device associated with the second report recipient based on the second report recipient subscribing to the reporting service.

11. The system of claim 10, further comprising instructions that, when executed by the at least one processor, cause the system to receive a first subscription request from the

first report recipient indicating customization information for reports to be provided to the first report recipient.

12. The system of claim 11, further comprising instructions that, when executed by the at least one processor, cause the system to receive a second subscription request from the second report recipient indicating customization information for reports to be provided to the second report recipient.

13. The system of claim 12, wherein the customization information for reports to be provided to the first report recipient is different than the customization information for reports to be provided to the second report recipient.

14. The system of claim 12, further comprising instructions that, when executed by the at least one processor, cause the system to:

receive a second response from the user to the second survey question;

provide a report for the second response to the first report recipient based on the customization information received in the first subscription request; and

determine not to provide the report for the second response to the second report recipient based on the customization information received in the second subscription request.

15. The system of claim 12, further comprising instruction that, when executed by the at least one processor, cause the system to determine that the first set of metadata of the first response indicates that the first response comprises a file type including at least one of a digital photo, digital audio, or digital video.

16. A non-transitory computer readable storage media storing instructions thereon that, when executed by a processor, cause a computer system to:

send, to a client device associated with a user, an electronic survey comprising a first survey question and a second survey question;

receive, from the client device, a first response from the user to the first survey question and a second response from the user to the second survey question;

identify a first response type of survey response types for the first response according to a first set of metadata of the first response by categorizing the first response as one of a free-form survey response type, a drop-down selection survey response type, a multiple-choice survey response type, a file-upload survey response type, or a radio-button survey response type;

identify a second response type of survey response types for the second response according to a second set of metadata of the second response by categorizing the second response as one of the free-form survey response type, the drop-down selection survey response type, the multiple-choice survey response type, the file-upload survey response type, or the radio-button survey response type, wherein the second response type differs from the first response type;

generate a report comprising the first response categorized according to the first response type of survey response types and the second response categorized according to the second response type of survey response types;

identify that a first report recipient and a second report recipient subscribe to a reporting service;

provide the report to a first client device associated with the first report recipient based on the first report recipient subscribing to the reporting service; and

provide the report to a second client device associated with the second report recipient based on the second report recipient subscribing to the reporting service.

17. The non-transitory computer readable storage media of claim 16, further comprising instructions that, when executed by the processor, cause the computer system to create a response database for collecting responses from a plurality of users.

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18. The non-transitory computer readable storage media of claim 17, wherein the response database comprises a table corresponding to each survey question of the electronic survey.

19. The non-transitory computer readable storage media of claim 17, wherein the response database comprises a table corresponding to the electronic survey, the table collecting and maintaining responses originating from the electronic survey.

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20. The non-transitory computer readable storage media of claim 17, wherein generating the report comprises accessing the response database to obtain one or more responses to include in the report.

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